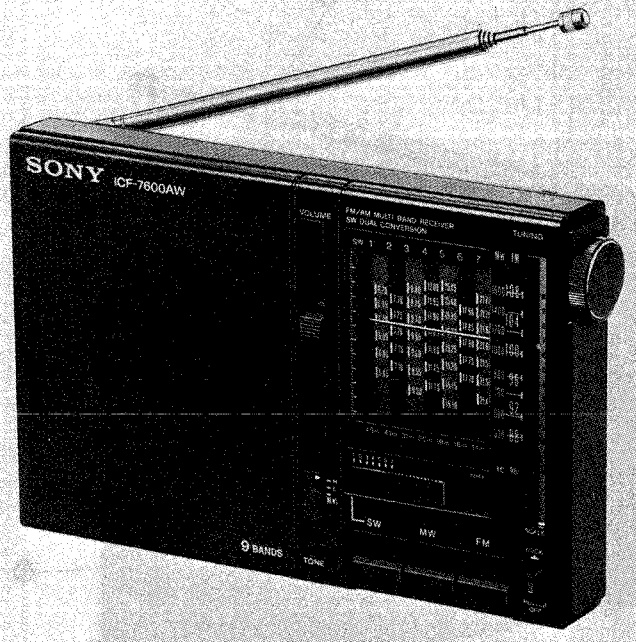
ICF-7600AW

E Model
AEP Model



FM/MW/SW 9 BAND RECEIVER

SPECIFICATIONS

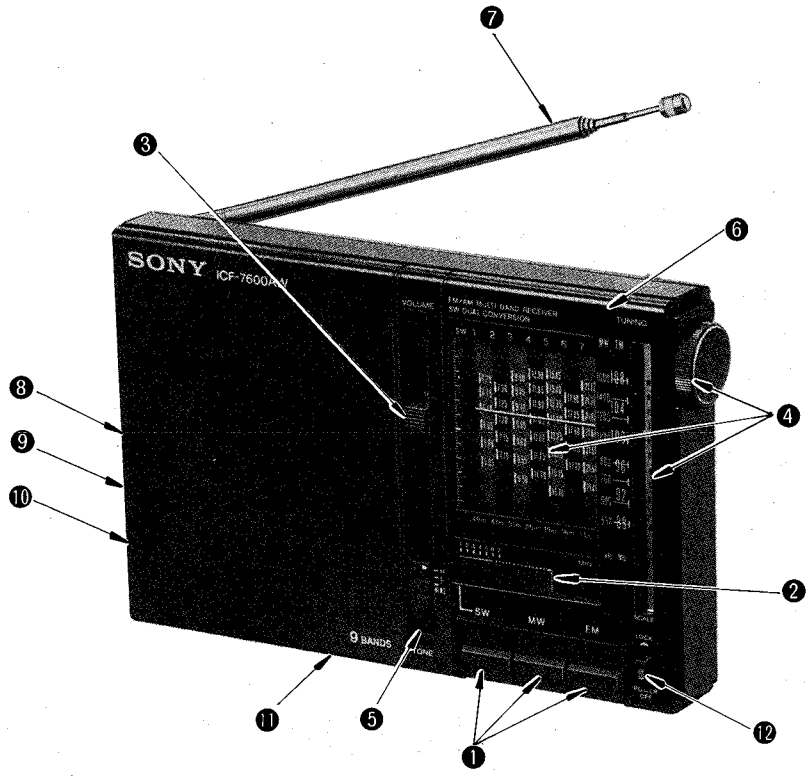
Frequency range	FM 87.6 – 108 MHz SW_1 5.95 – 6.20 MHz (49 m) SW_2 7.10 – 7.30 MHz (41 m) SW_3 9.50 – 9.80 MHz (31 m) SW_4 11.70 – 12.00 MHz (25 m) SW_5 15.10 – 15.45 MHz (19 m) SW_6 17.70 – 17.90 MHz (16 m) SW_7 21.45 – 21.75 MHz (13 m) MW 530 – 1,605 kHz (566 – 187 m)
Antennas	FM/SW: Telescopic antenna MW: Built-in ferrite bar antenna
Speaker	Approx. 7.7 cm (3 inches) dia.
Power output	450 mW (at 10% harmonic distortion) ac/dc operation
Outputs	Earphone jack (minijack) Recording jack (minijack)
Power requirements	6 V dc Batteries: IEC designation R6 (size AA) × 4 AC power adaptor: Refer to the following chart to choose the correct adaptor for your area.

Country	AC power line voltage	Optional ac power adaptor
Japan	100 V ac, 50/60 Hz	AC-9 available in Japan
The U.S.A.	120 V ac, 60 Hz	AC-9W available in the U.S.A.
Canada	120 V ac, 60 Hz	AC-9 available in Canada
The United Kingdom	240 V ac, 50 Hz	AC-15A available in the United Kingdom
European countries	110 or 220 V ac adjustable, 50 Hz	AC-456C available in European countries
Other countries	120 V ac (110, 220 or 240 V ac, adjustable by Sony personnel), 50/60 Hz	AC-4A available in Japan
	110, 120, 220 or 240 V ac adjustable, 50/60 Hz	AC-4A available in other countries

	12 V car battery: Sony DCC-127A car battery cord
Battery life	Approx. 21 hours with Sony SUM-3 (NS) New Super batteries Approx. 16 hours with Eveready No. 1015 batteries
Dimensions	Approx. 179 × 117 × 31 mm (w/h/d) ($7\frac{1}{8} \times 4\frac{5}{8} \times 1\frac{1}{4}$ inches) not incl. projecting parts and controls
Weight	Approx. 600 g (1 lb 6 oz) incl. batteries
Accessories supplied	Earphone ME-20H (1) Carrying case (1)

MICROFILM

SONY®
SERVICE MANUAL

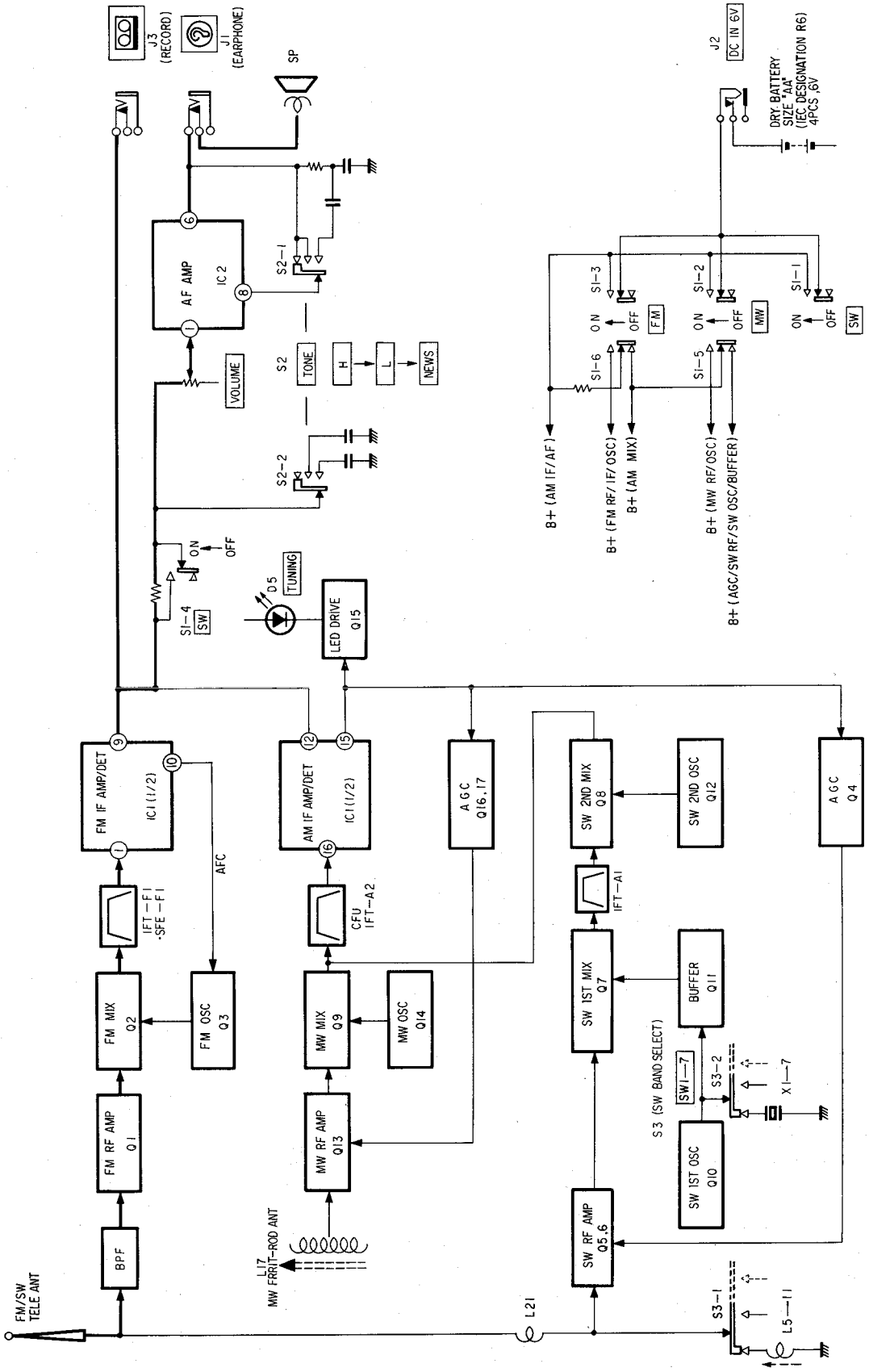


❶ **Band Select Buttons:** Depress and lock the desired band button. The radio will be turned on simultaneously.
● To release the locked button, press another button or the POWER OFF button.
❷ **SW band selector:** For SW reception, choose the desired meter band (SW_1 – SW_7).
❸ **VOLUME control:** Slide upwards to get sound. After tuning, adjust the volume to your preference.
❹ **Tuning knob and dial scales:** Turn the knob to select the desired station.
The frequencies available within each band are marked on the corresponding dial scale.
❺ **TONE control:** Adjust the tone quality to your preference.
Normally set the switch to H. For less treble sound, set to L. When the noise is severe during SW reception, set it to NEWS. The noise may be reduced to some extent, and the vocal part will be heard more clearly.

❻ **TUNING indicator:** Lights when a signal is received.
❼ **Telescopic antenna:** Adjust the antenna as required.
❽ **(recording) jack:** For recording radio programs with a tape recorder. Connect this jack to the microphone input jack of your tape recorder with a suitable cord.
For a Sony tape recorder, use the Sony RK-69A connecting cord (optional).

❾ **(earphone) jack:** For listening with an earphone.
❿ **DC IN 6 V (external power input) jack**
⓫ **Battery compartment (rear)**
⓬ **POWER OFF button:** After using, press this button.
If you want to lock the POWER OFF button, while pressing it in, slide it upward. When the POWER OFF button is locked, the radio cannot be turned on even if the SW, MW, or FM button is pressed. This function is useful when carrying the radio in a suitcase or attache case.

SECTION 1
BLOCK DIAGRAM

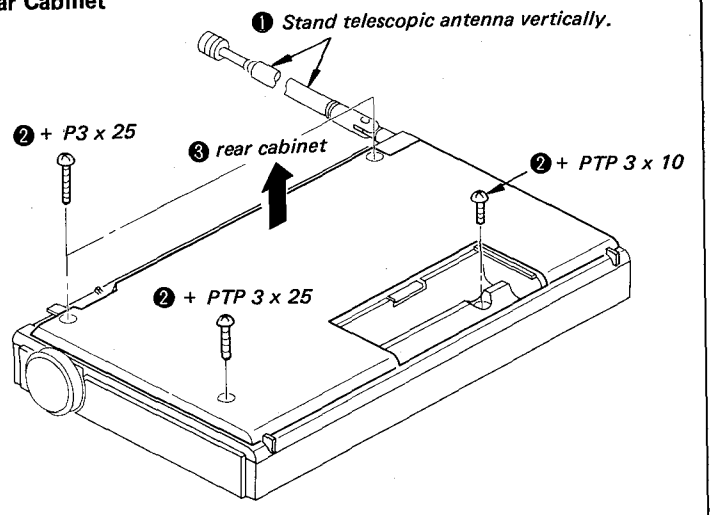


SECTION 2
DISASSEMBLY

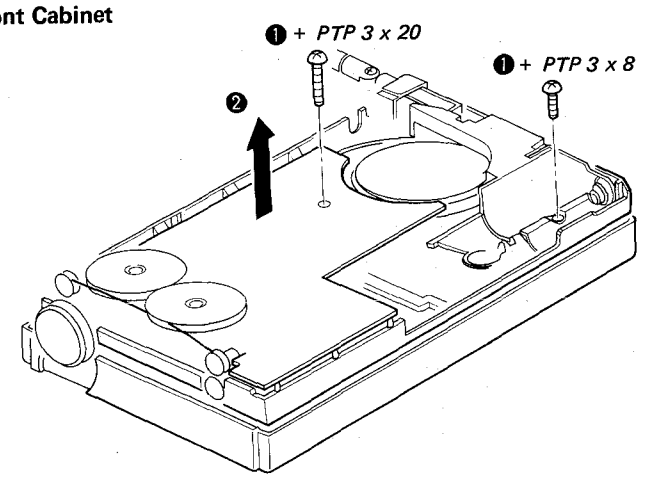
2-1. REMOVAL

- Follow the disassembly procedure in the numerical order given.

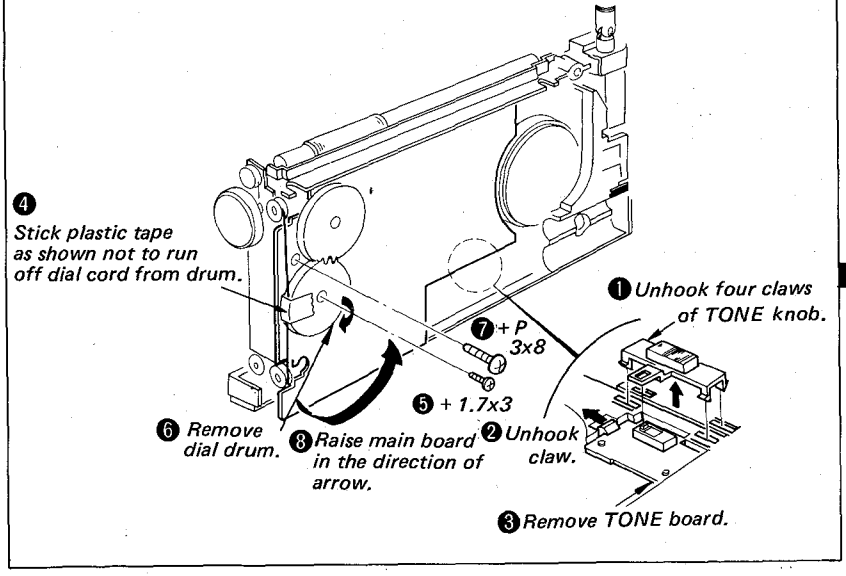
Rear Cabinet



Front Cabinet



Main Board


❹ Stick plastic tape as shown not to run off dial cord from drum.
❶ Unhook four claws of TONE knob.
❼ + P 3x8
❺ + 1.7x3
❻ Remove dial drum.
❽ Raise main board in the direction of arrow.
❷ Unhook claw.
❸ Remove TONE board.

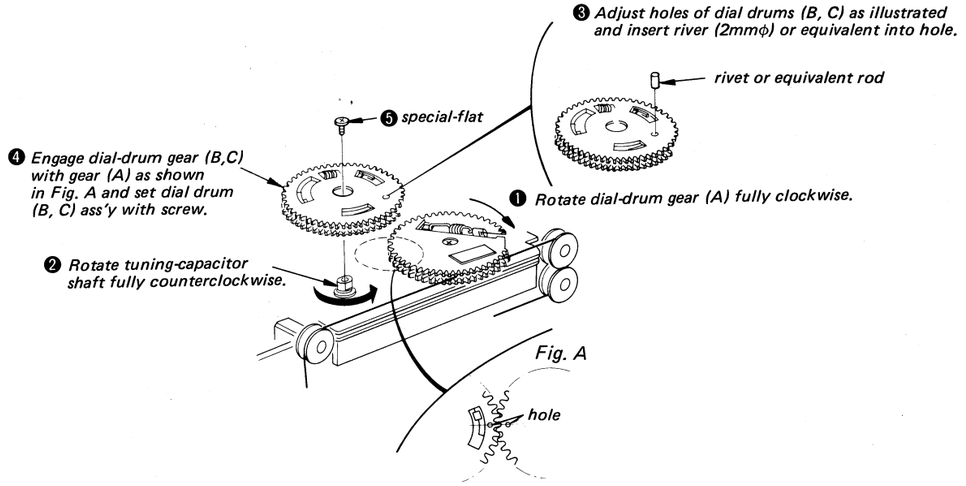
Dial-drum Gear (B, C) Ass'y Installation
See page 5.

Dial cord Stringing
See page 6.

Slider Adjustment
See page 5.

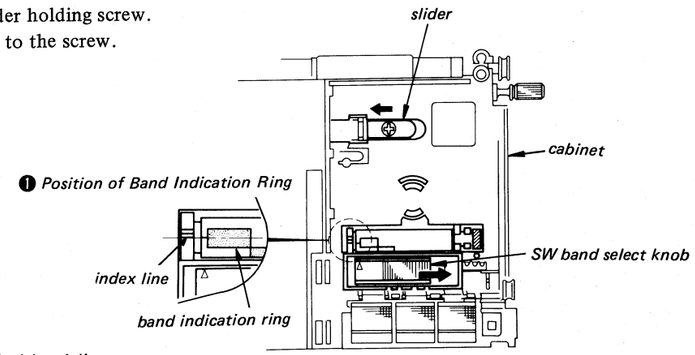
ICF-7600AW

2-2. Dial-drum Gear (B, C) Ass'y Installation


❸ Adjust holes of dial drums (B, C) as illustrated and insert river (2mmϕ) or equivalent into hole.
rivet or equivalent rod
❺ special-flat
❹ Engage dial-drum gear (B,C) with gear (A) as shown in Fig. A and set dial drum (B, C) ass'y with screw.
❶ Rotate dial-drum gear (A) fully clockwise.
❷ Rotate tuning-capacitor shaft fully counterclockwise.
Fig. A
hole

2-3. Slider Adjustment

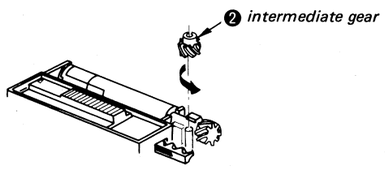
Push SW band select knob and slider fully in the direction of arrow and fix slider holding screw.
Apply lock paint to the screw.



Band Indication Ring Position Adjustment

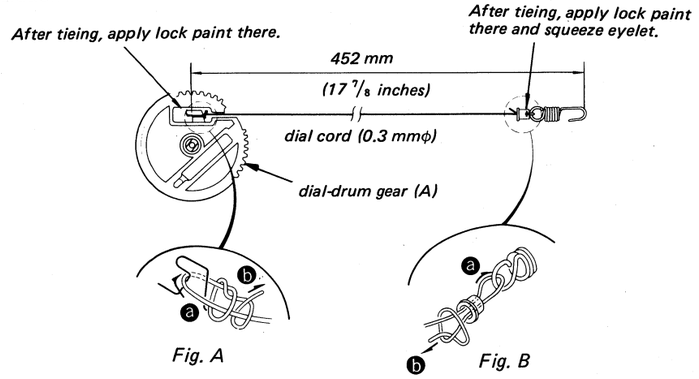
1 *Push SW band select knob fully in the opposite direction as in the above procedure 1. Adjust position of band in dication ring.*

2 *Set intermediate gear while rotating it in the direction of arrow.*



2-4. DIAL CORD STRINGING

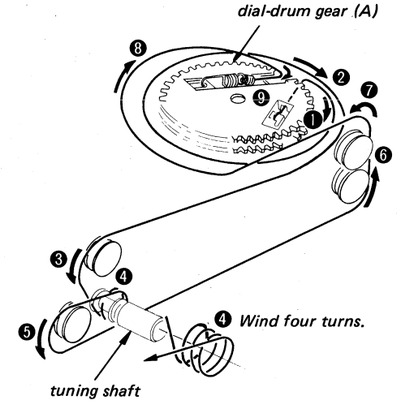
1. Preparation



Tie cord in the orders a, b as shown in Fig. A and B

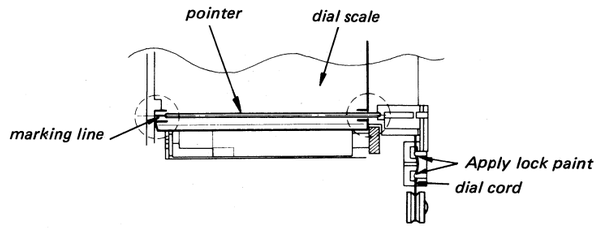
2. Stringing

Turn dial-drum gear (A) fully clockwise and string dial cord in the numerical order given (❶ – ❾)



3. Pointer Setting

Slide pointer to lowest position of dial scale and aline pointer with marking line.



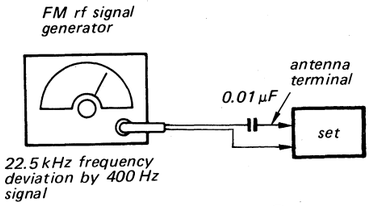
SECTION 3
ADJUSTMENTS

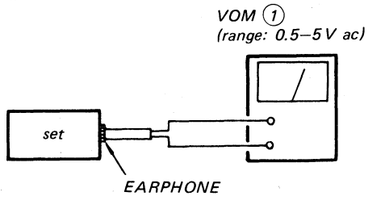
Note: FM and MW IF alignments should be made by removing main board.

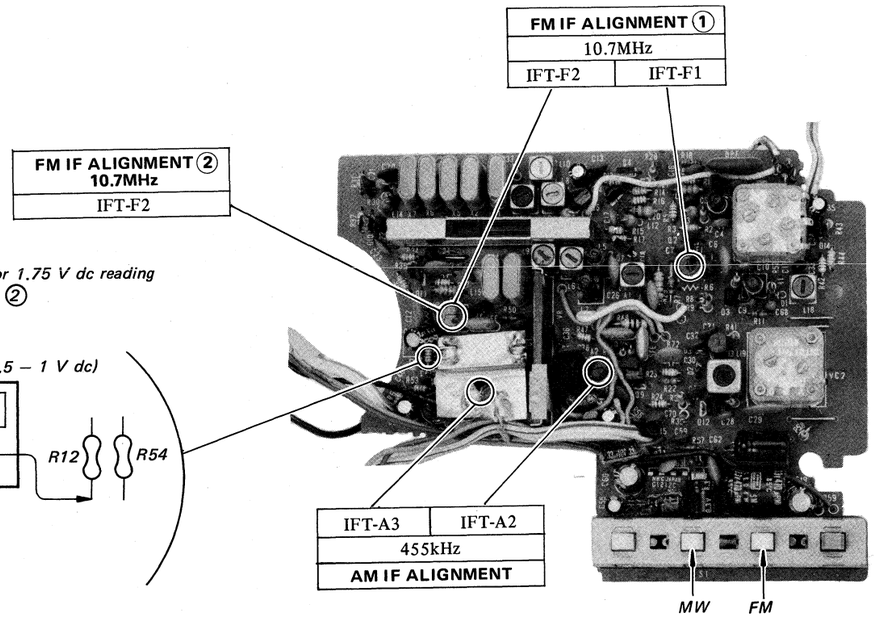
FM, MW IF ALIGNMENT

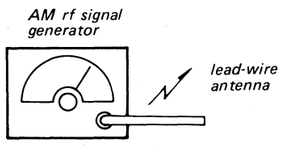
Setting:
VOLUME . . . . MAX

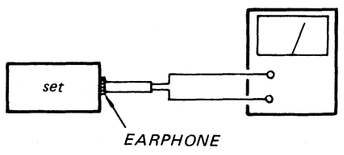
- Adjust for a maximum reading on VOM ①.
- Repeat the procedures in each adjustment several times,







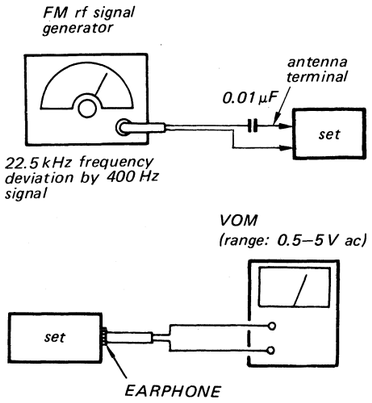


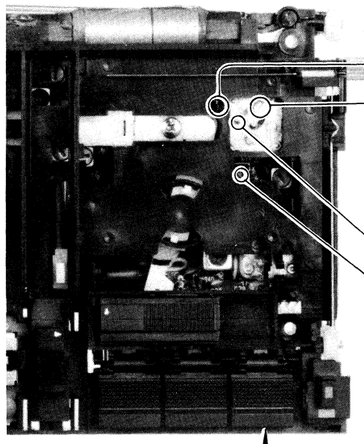


FM SECTION

- **Setting**
  BAND . . . . . FM
  VOLUME . . . . MAX

- Adjust for a maximum reading on VOM.
- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.





FM TRACKING ADJUSTMENT		
	E model	AEP model
L1	87.1 MHz	87.35 MHz
CT1–2	108.5 MHz	107.8 MHz

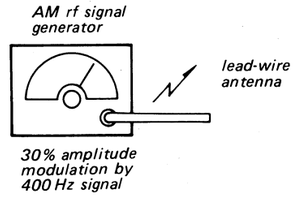
FM FREQUENCY COVERAGE ADJUSTMENT		
	E model	AEP model
CT1–1	108.5 MHz	107.8 MHz
L4	87.1 MHz	87.35 MHz

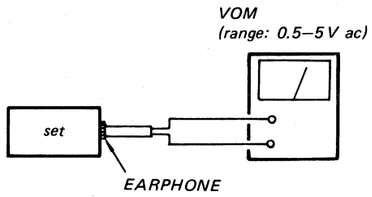
MW SECTION

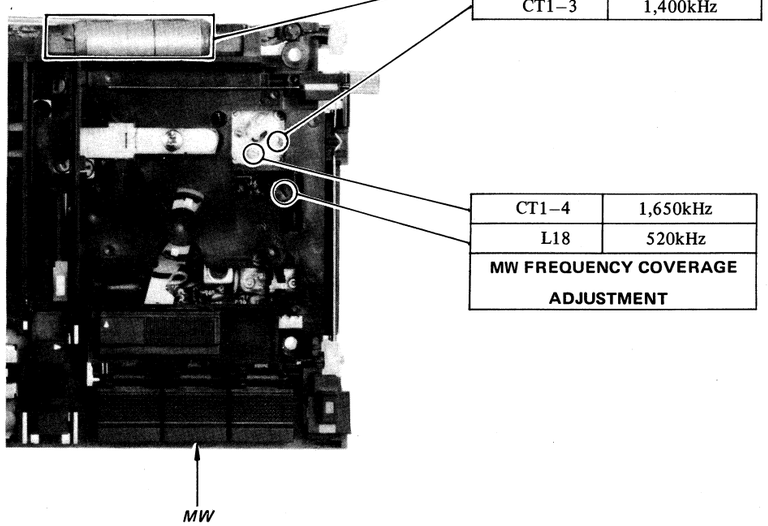
Setting

BAND . . . . . MW
VOLUME . . . MAX

- Adjust for a maximum reading on VOM.
- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.







MW TRACKING ADJUSTMENT	
L17	620kHz
CT1–3	1,400kHz

CT1–4	1,650kHz
L18	520kHz
MW FREQUENCY COVERAGE ADJUSTMENT	

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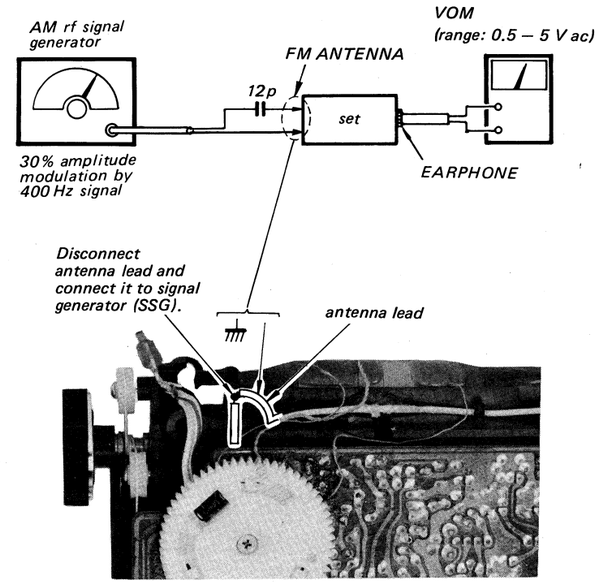
SW SECTION

Setting

BAND . . . . . SW
VOLUME . . . MAX

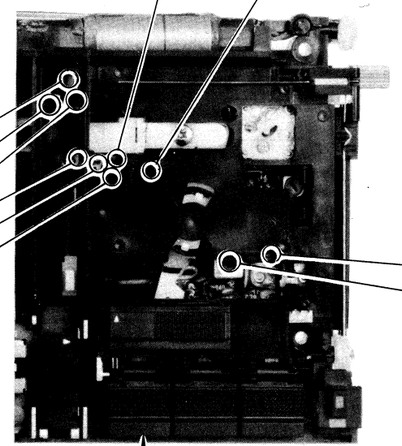
Note: Before making SW2–SW7 tracking adjustments set dial pointer to 6.075 MHz (SW1) on dial scale and change band select switch to SW2–SW7.

- Adjust for a maximum reading on VOM.
- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.



SW1 TRACKING ADJUSTMENT, IF ALIGNMENT	
6.075MHz	
L5	IFT-A1

SW2–7 TRACKING ADJUSTMENT		
SW6	17.8MHz	L10
SW7	21.6MHz	L11
SW4	11.8375MHz	L8
SW5	15.275MHz	L9
SW2	7.2MHz	L6
SW3	9.655MHz	L7

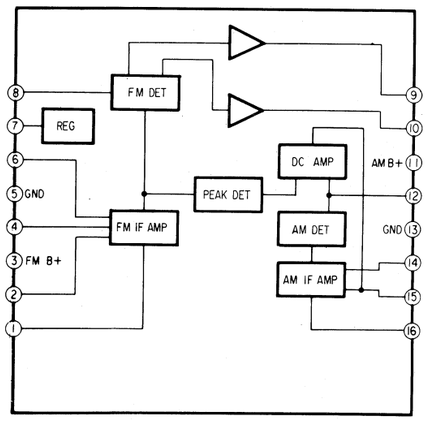


FREQUENCY COVERAGE ADJUSTMENT	
CT-2	10.47MHz
L19	10.02MHz

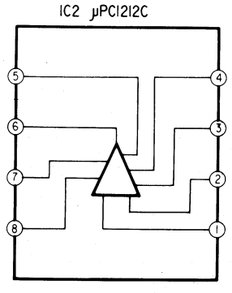
4-1. MOUNTING DIAGRAM

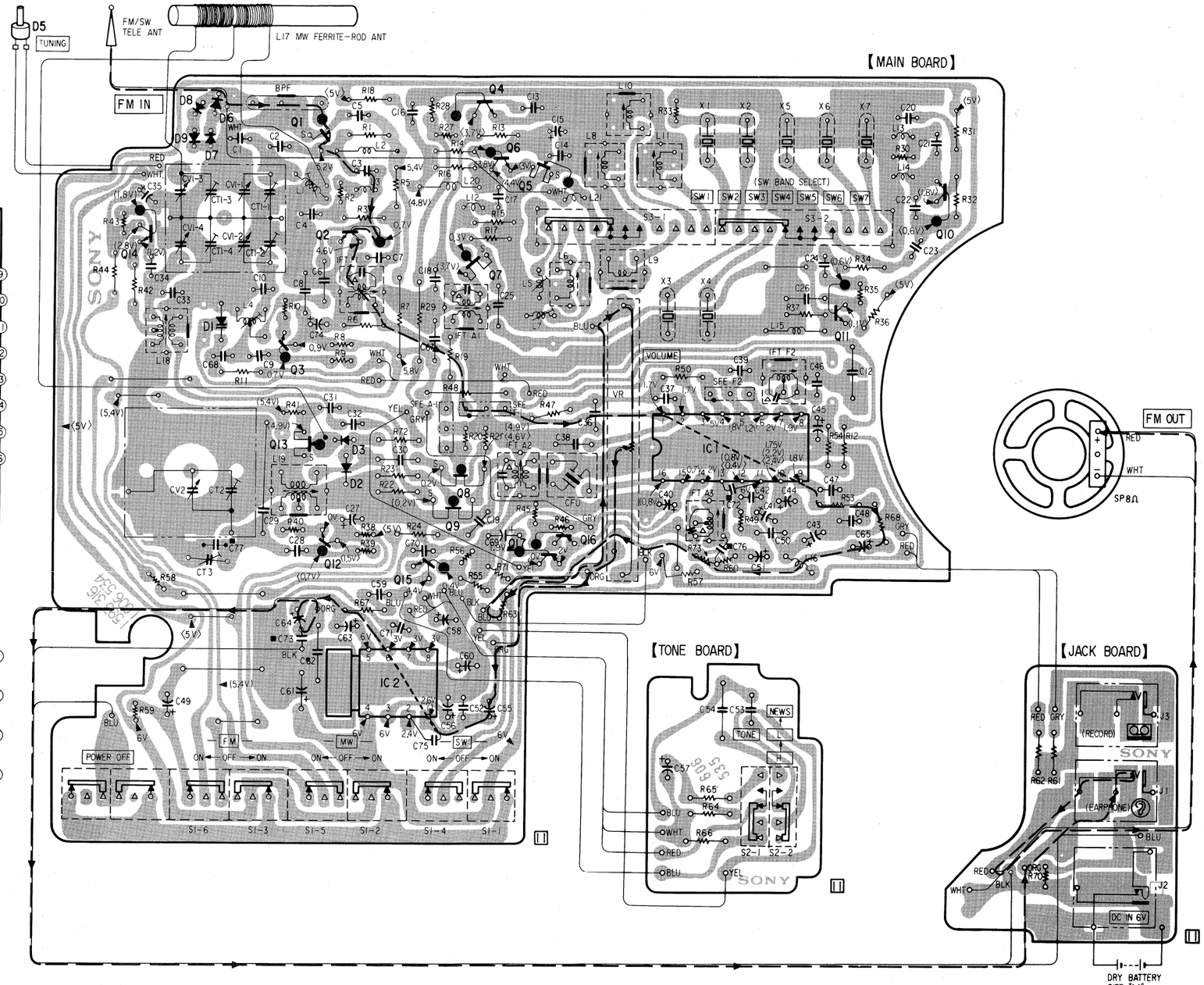
– Conductor Side –

IC1 HAI2413

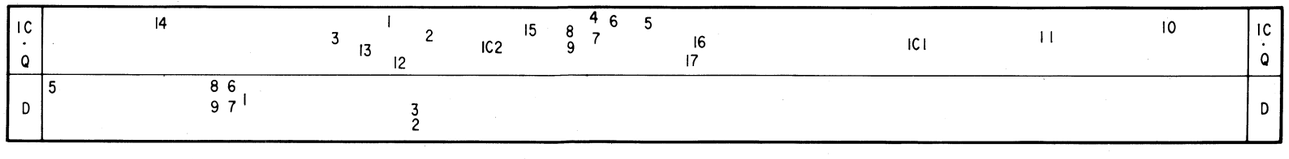


IC2 μPC1212C

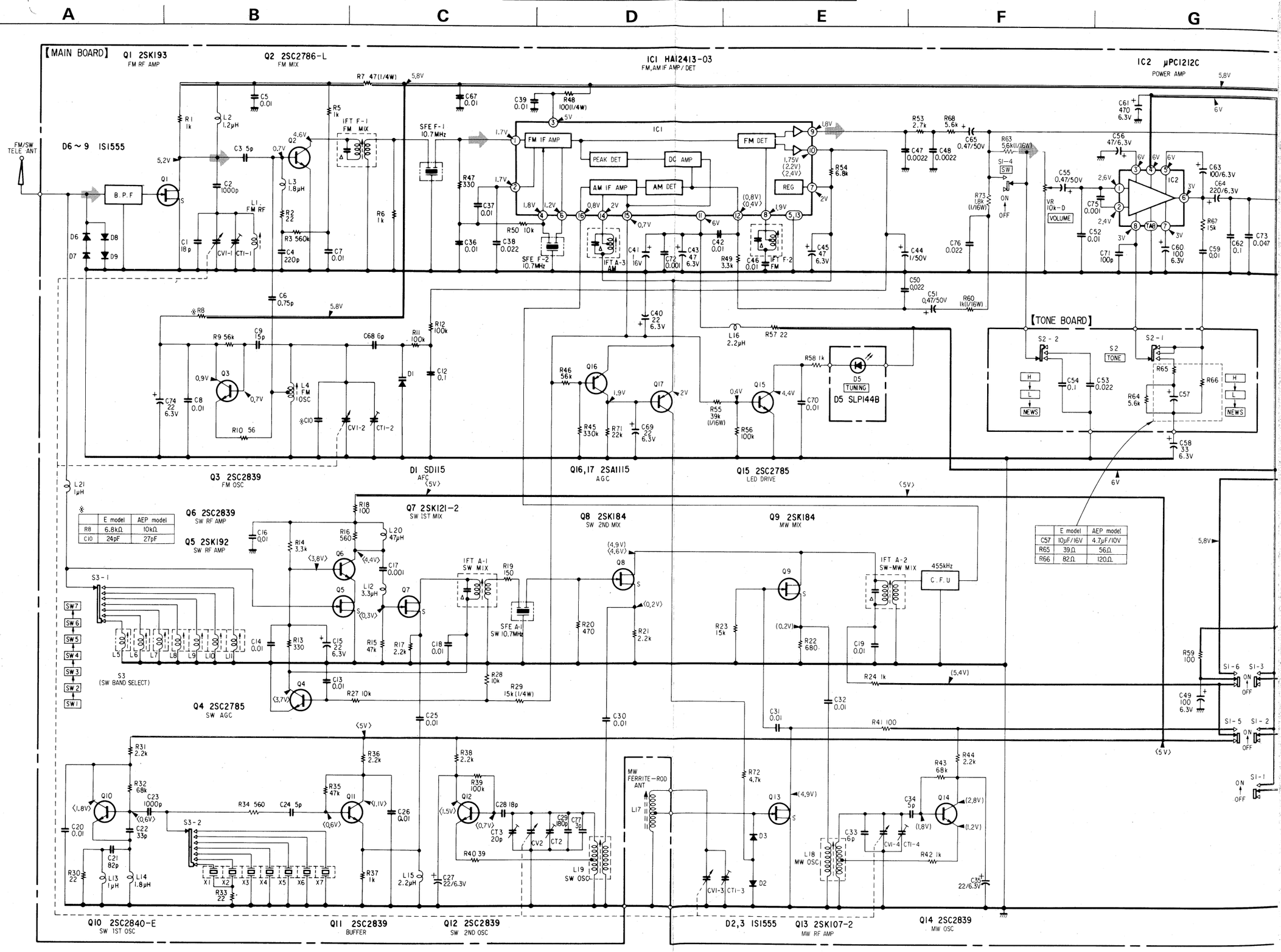


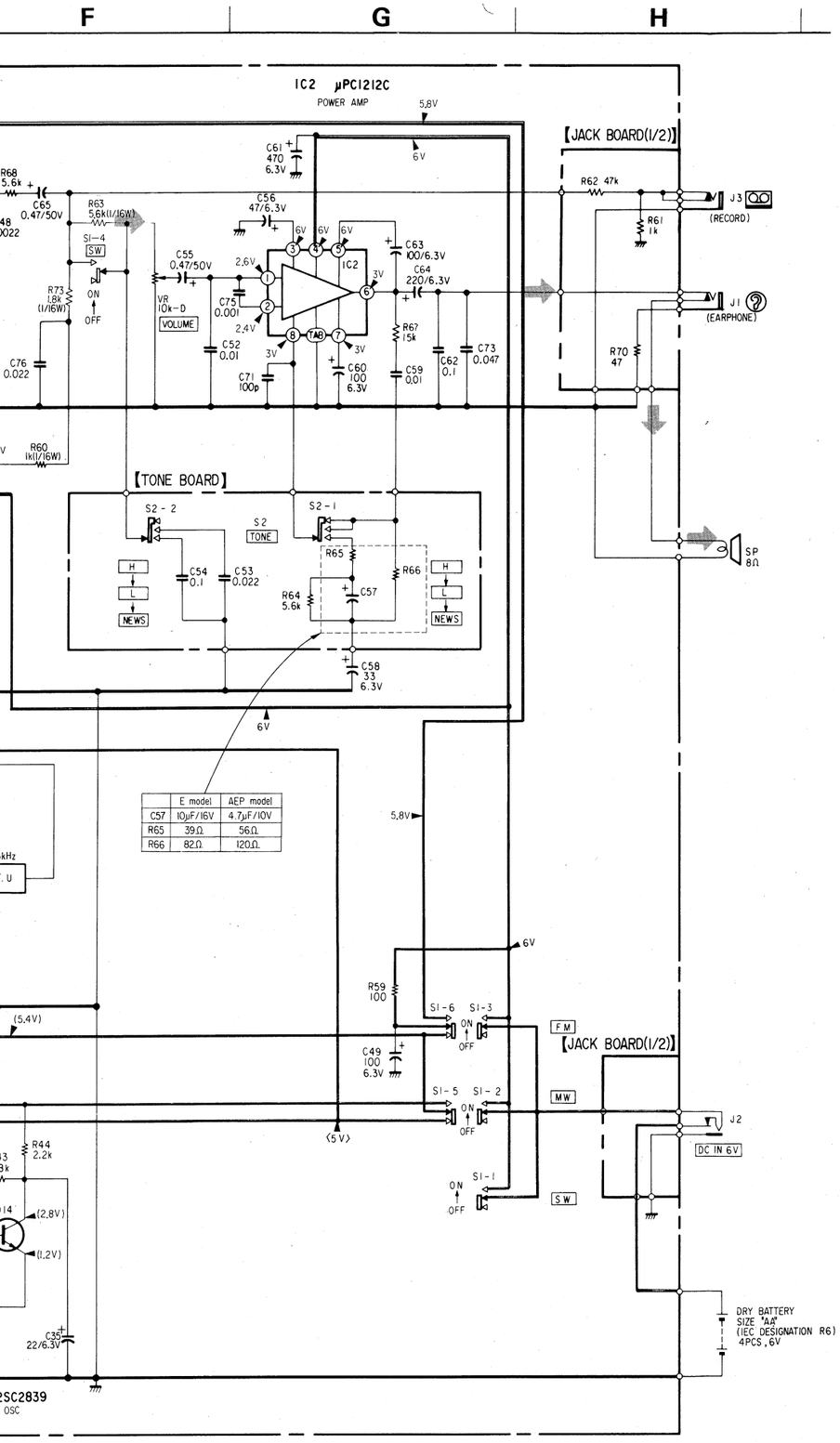


- ○— : parts extracted from the component side.
- ●— : parts extracted from the conductor side.
- ■ : part mounted on the conductor side.
- [ ]— : indicates side identified with part number.
- ▒ : B + pattern
- ▬▶▬ : signal path



4-2. SCHEMATIC DIAGRAM

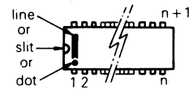




Replacement Semiconductors

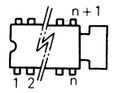
For replacement, use semiconductors except in ( ).

HA12413-03



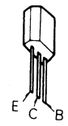
(Top view)

μPC1212C

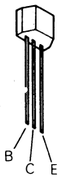


(Top view)

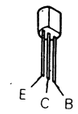
2SA1027R



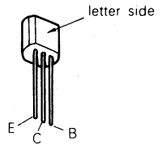
2SC668-SP
(2SC2840-E)
2SC2839



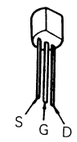
2SC1674
(2SC2786-L)



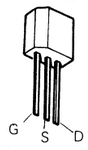
2SC2785



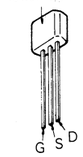
2SK107-2



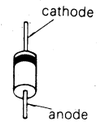
2SK184
2SK192



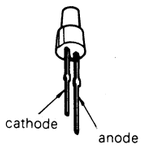
2SK193



1S1555
1S2139C
(SD115)



SLP144B



Note: Voltage are measured with a VOM (50kΩ/V)

- All capacitors are in μF unless otherwise noted. pF : μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms, 1/8 W unless othersise noted. kΩ : 1000Ω, MΩ : 1000 kΩ
- ▭ : panel designation.
- ——: B+ bus.
- Readings are taken under no-signal conditions.

  ( ) : MW
  < > : SW
  no mark : FM

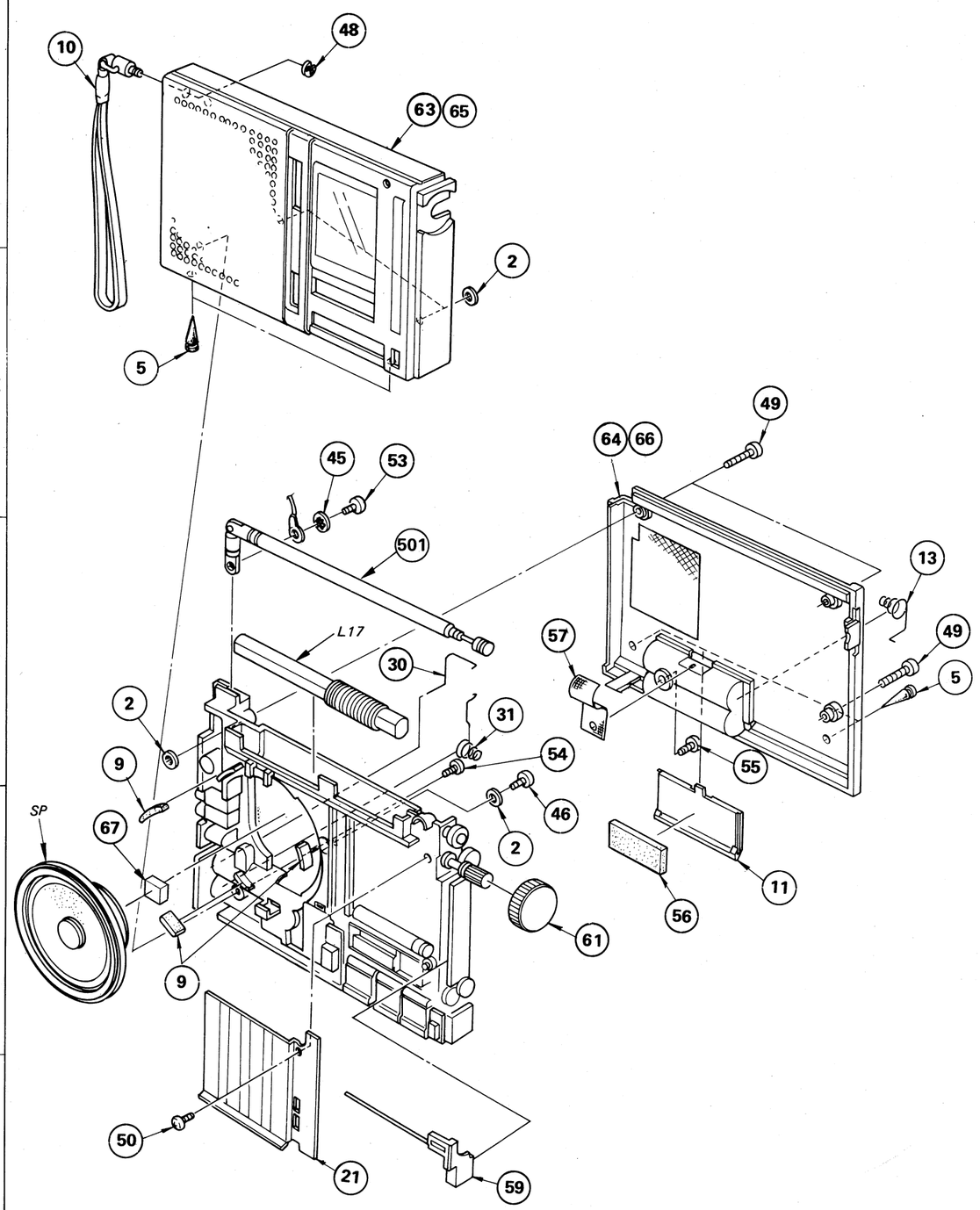
- Switch

Ref. No.	Switch	Position
S1	POWER (BAND)	OFF
S2	TONE	H
S3	SW BAND SELECT	SW1

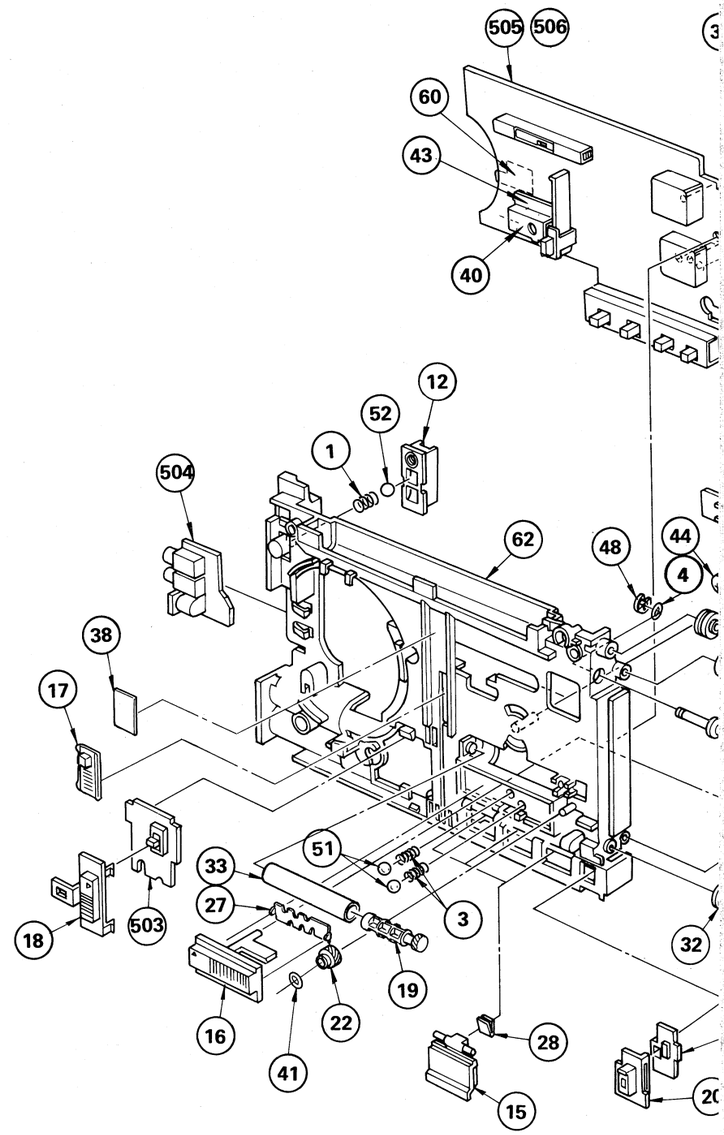
- ➡ signal path

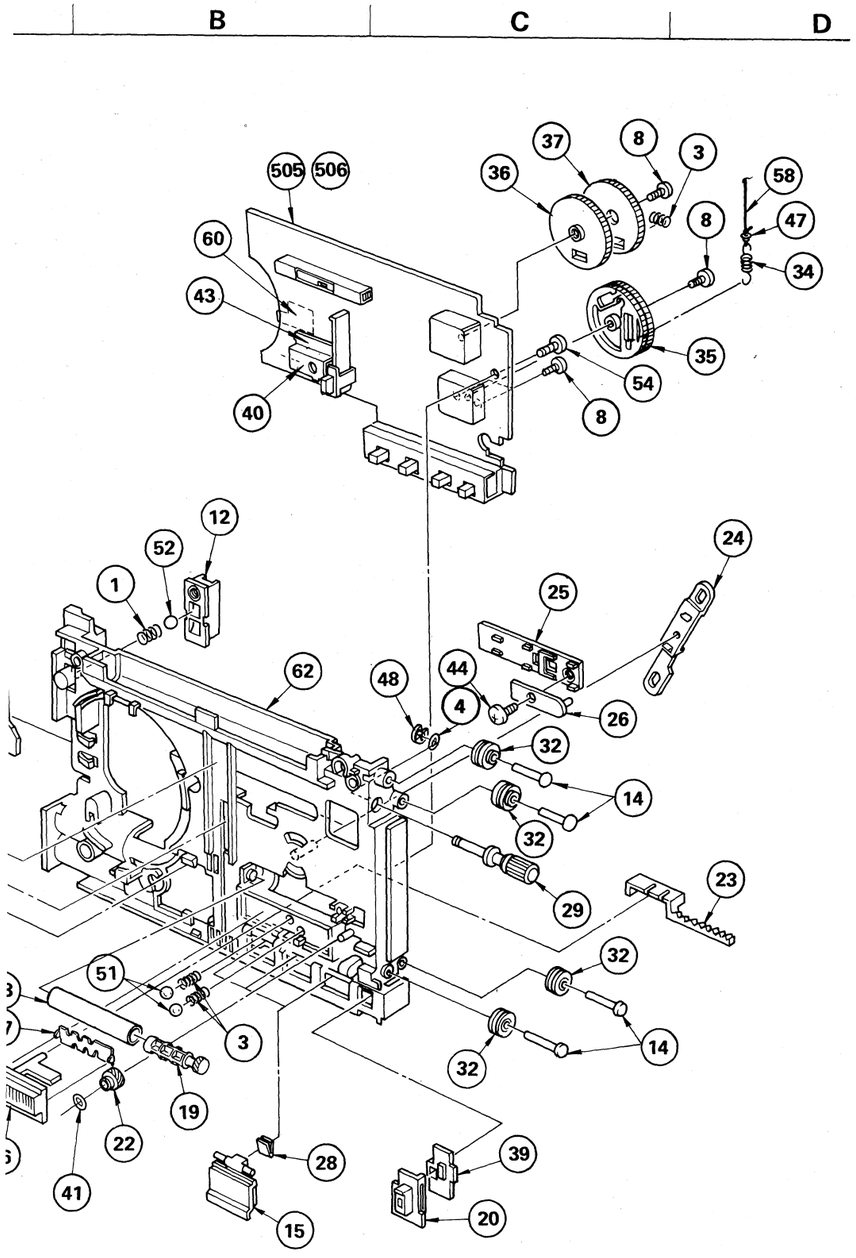
SECTION 5
EXPLODED VIEW AND PARTS LIST

5-1.



5-2.





GENERAL SECTION

No.	Part No.	Description
1	3-140-063-00	SPRING, COMPRESSION
2 ♦	3-423-147-00	SPACER (DIA.6)
3	3-837-654-00	SPRING, COMPRESSION
4	3-701-438-00	WASHER
5	3-880-917-00	STOPPER
6	.....	
7	.....	
8	3-880-990-00	SCREW (1.7X3), FLAT, (+) SPECIAL
9	3-881-931-00	CUSHION, SPEAKER
10	3-881-938-00	STRAP, HAND
11	3-883-404-00	LID, BATTERY CASE
12	3-883-411-00	SLIDER (ROD ANTENNA)
13	3-883-423-00	SPRING
14	3-883-489-00	RIVET, SMALL ROUND
15	3-883-493-00	BUTTON, PIANO KEY
16	3-883-494-00	KBON, BAND SELECTION, SWITCH
17	3-883-495-00	KNOB, CONTROL
18	3-883-496-00	KNOB, TONE
19	3-883-497-00	DRUM, INDICATE
20	3-883-498-00	BUTTON, OFF
21	3-883-499-00	SCALE, DIAL
22	3-890-103-00	GEAR, MIDWAY
23	3-890-104-00	RACK, HELICAL
24	3-890-105-00	LEVER, BAND SELECTION
25	3-890-106-00	SLIDER, BAND SELECTION
26	3-890-107-00	PLATE, ADJUSTMENT
27 ♦	3-890-108-00	PLATE, CLICK
28	3-890-109-00	SPRING
29	3-890-110-00	SHAFT, TUNING
30	3-890-112-00	WIRE, TERMINAL, PLUS
31	3-890-113-00	WIRE, TERMINAL, MINUS
32	3-890-114-00	PULLEY
33	3-890-116-00	RING, INDICATOR
34	3-890-119-00	SPRING
35	3-890-121-00	GEAR (A), DIAL DRUM
36	3-890-122-00	GEAR (B), DIAL DRUM
37	3-890-123-00	GEAR (C), DIAL DRUM
38	3-890-128-00	COVER, ADJUSTMENT HOLE
39	3-890-129-00	RETAINER, KNOB
40 ♦	3-890-132-00	PLATE (B), SHIELD
41	3-890-148-00	WASHER
42	.....	
43 ♦	3-890-144-00	PLATE (D), SHIELD
44	7-621-775-15	SCREW +B 2.6X4
45	7-623-308-07	LW 3, TYPE (A)

GENERAL SECTION

No.	Part No.	Description
46	7-685-151-11	SCREW +P 3X20 TYPE 2
47	7-623-605-00	EYELET, 1.3X2.5
48	7-624-104-04	STOP RING 2.0, TYPE -E
49	7-685-152-19	SCREW +P 3X25 TYPE 2
50	7-627-551-28	SCREW, PRECISION +P 1.4X2.5
51	7-671-113-01	STEAL, BALL 3
52	7-671-115-01	BALL, STEEL
53	7-682-548-09	SCREW +B 3X8
54	7-685-146-11	SCREW +P 3X8 TYPE2 NON-SLIT
55	7-685-147-19	SCREW +P 3X10 TYPE2 NON-SLIT
56	9-911-815-01	CUSHION
57	9-911-816-01	CLOTH, BATTERY DRAWING
58	9-911-825-52	STRING, DIAL
59	X-3883-416-0	POINTER ASSY
60 ♦	X-3883-421-0	PLATE (C) ASSY, SHIELD
61	X-3883-406-1	KNOB ASSY, TUNING
62	X-3883-417-1	SHASSIS ASSY
63	X-3883-427-1	(E).....CABINET ASSY, MAIN
64	X-3883-426-1	(E).....CABINET ASSY, REAR
65	X-3883-430-1	(AEP)...CABINET ASSY, MAIN
66	X-3883-429-1	(AEP)...CABINET ASSY, REAR
67	9-911-853-XX	CUSHION

ACCESSORY & PACKING MATERIAL

No.	Part No.	Description
81	1-504-059-11	MAGNETIC EARPHONE (ME-20H)
82	3-701-363-00	LABEL, TACK
83	3-703-264-11	(E)....LABEL (B), SERIAL NUMBER
84	3-883-469-00	BAG, PROTECTION
85	3-890-124-00	BAG, CARRYING
86	3-701-622-00	BAG, POLYETHYLENE
87	3-890-137-00	CUSHION, SPACER
88	.....	
89	X-3883-423-1	CARTON ASSY
90	3-890-140-00	CUSHION
91	3-995-915-01	MANUAL, INSTRUCTION

NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked " ♦ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.

CAPACITORS:
- All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers. MF:μF, PF:μμF.

RESISTORS
- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.
- F : nonflammable

COILS
- MMH : mH, UH : μH

SEMICONDUCTORS
In each case, U : μ, for example:
UA···: μA···, UPA···: μPA···, UPC···: μPC, UPD···: μPD···

ELECTRICAL PARTS

Ref.No.	Part No.	Description
501	1-501-255-00	ANTENNA, TELESCOPIC
502	.....	
503 ♦	1-606-535-00	PC BOARD, TONE
504 ♦	1-606-536-00	PC BOARD, JACK
505 ♦	A-3660-360-A	(E).....MOUNTED PCB, MAIN
506 ♦	A-3660-369-A	(AEP)...MOUNTED PCB, MAIN
BPF	1-235-053-00	FILTER, BANDPASS
CFU	1-527-290-00	FILTER, CERAMIC
CT1-4	1-151-400-00	CAP, TUNING, POLYETHYLENE
CT2	1-151-399-00	CAP, TUNING, POLYETHYLENE
CT3	1-141-204-00	CAP, TRIMMER 6-20PF
D1	8-719-713-93	DIODE 1S2139C
D2	8-719-815-55	DIODE 1S1555
D3	8-719-815-55	DIODE 1S1555
D5	8-719-901-44	DIODE SLP144B
D6	8-719-815-55	DIODE 1S1555
D7	8-719-815-55	DIODE 1S1555
D8	8-719-815-55	DIODE 1S1555
D9	8-719-815-55	DIODE 1S1555
IC1	8-759-324-13	IC HA12413-03
IC2	8-759-100-17	IC UPC1212C
IFT-A1	1-404-126-00	IFT (SMALL TYPE)
IFT-A2	1-404-337-00	TRANSFORMER, IF
IFT-A3	1-404-365-00	TRASNFORMER, IF
IFT-F1	1-404-126-00	IFT (SMALL TYPE)
IFT-F2	1-404-366-00	TRANSFORMER, IF
J1	1-507-578-00	JACK
J2	1-507-459-00	JACK
J3	1-507-578-00	JACK
L1	1-459-386-00	COIL (WITH CORE)
L2	1-408-552-00	MICRO INDUCTOR 1.2UH
L3	1-408-554-00	MICRO INDUCTOR 1.8UH
L4	1-459-393-00	COIL (WITH CORE)
L5	1-459-383-00	COIL (WITH CORE)
L6	1-401-951-00	COIL (ANT)
L7	1-459-384-00	COIL (WITH CORE)
L8	1-401-952-00	COIL (ANT)
L9	1-401-953-00	COIL (ANT)
L10	1-401-954-00	COIL (ANT)
L11	1-401-955-00	COIL (ANT)
L12	1-408-557-00	MICRO INDUCTOR 3.3UH

ELECTRICAL PARTS

Ref.No.	Part No.	Description
L13	1-408-551-00	MICRO INDUCTOR 1UH
L14	1-408-554-00	MICRO INDUCTOR 1.8UH
L15	1-408-555-00	MICRO INDUCTOR 2.2UH
L16	1-408-555-00	MICRO INDUCTOR 2.2UH
L17	1-401-700-21	ANTENNA, FERRITE-ROD (MW)
L18	1-405-987-00	COIL, OSC (MW)
L19	1-405-992-00	COIL, OSC
L20	1-408-571-00	MICRO INDUCTOR 47UH
L21	1-408-551-00	MICRO INDUCTOR 1UH
Q1	8-729-119-32	TRANSISTOR 2SK193
Q2	8-729-167-42	TRANSISTOR 2SC1674
Q3	8-729-883-92	TRANSISTOR 2SC2839
Q4	8-729-178-54	TRANSISTOR 2SC2785
Q5	8-729-219-21	TRANSISTOR 2SK192
Q6	8-729-883-92	TRANSISTOR 2SC2839
Q7	8-769-132-00	TRANSISTOR 2SK121-2
Q8	8-729-218-42	TRANSISTOR 2SK184
Q9	8-729-218-42	TRANSISTOR 2SK184
Q10	8-729-806-84	TRANSISTOR 2SC668-SP
Q11	8-729-883-92	TRANSISTOR 2SC2839
Q12	8-729-883-92	TRANSISTOR 2SC2839
Q13	8-769-200-20	TRANSISTOR 2SK107-2
Q14	8-729-883-92	TRANSISTOR 2SC2839
Q15	8-729-178-54	TRANSISTOR 2SC2785
Q16	8-729-612-77	TRANSISTOR 2SA1027R
Q17	8-729-612-77	TRANSISTOR 2SA1027R
R55	1-210-382-00	CARBON 39K 5% 1/16W
R60	1-204-122-00	CARBON 1K 5% 1/16W
R63	1-209-775-00	CARBON 5.6K 5% 1/16W
R73	1-209-878-00	CARBON 1.8K 5% 1/16W
S1	1-553-990-00	SWITCH, PUSH (4 KEY)
S2	1-553-989-00	SWITCH, SLIDE
S3	1-553-991-00	SWITCH, SLIDE
SFE-A1	1-527-886-00	FILTER, CERAMIC
SFE-F1	1-527-795-71	FILTER, CERAMIC
SFE-F2	1-527-795-71	FILTER, CERAMIC
SP	1-502-631-00	SPEAKER
X1	1-527-887-21	OSCILLATOR, CRYSTAL
X2	1-527-889-21	OSCILLATOR, CRYSTAL
X3	1-527-888-21	OSCILLATRO, CRYSTAL
X4	1-527-890-21	OSCILLATOR, CRYSTAL
X5	1-527-891-21	OSCILLATOR, CRYSTAL
X6	1-527-892-21	OSCILLATOR, CRYSTAL
X7	1-527-893-21	OSCILLATOR, CRYSTAL
VR	1-228-529-00	RES, VAR, SLIDE 10K

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COILS
- MMH : mH, UH : μH

SEMICONDUCTORS
In each case, U : μ, for example:
UA···: μA···, UPA···: μPA···, UPC···: μPC, UPD···: μPD···

SONY-STANDARD CAPACITORS, RESISTORS AND SCREWS

ELECTROLYTIC CAPACITORS

→ : Use the high voltage rated one.

CAP. (μF)	6.3 VOLT.	10 VOLT.	16 VOLT.	25 VOLT.	35 VOLT.	50 VOLT.
	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.
0.47					→	1-121-726-00
1.0					→	1-121-391-00
2.2					→	1-121-450-00
3.3	→	→	→	1-121-392-00	→	1-121-393-00
4.7	→	→	→	1-121-395-00	→	1-121-396-00
10	→	→	1-121-651-00	1-121-398-00	→	1-121-738-00
22	→	→	1-121-479-00	1-121-480-00	1-121-662-00	1-121-152-00
33	→	→	1-121-403-00	1-121-404-00	1-121-652-00	1-121-405-00
47	→	1-121-352-00	1-121-409-00	1-121-410-00	1-121-653-00	1-121-411-00
100	→	1-121-414-00	1-121-415-00	1-121-416-00	1-121-357-00	1-121-417-00
220	1-121-419-00	1-121-420-00	1-121-421-00	1-121-422-00	1-121-261-00	1-121-423-00
330	1-121-751-00	1-121-805-00	1-121-521-00	1-121-654-00	1-121-655-00	1-121-656-00
470	1-121-424-00	1-121-425-00	1-121-426-00	1-121-733-00	1-121-361-00	1-121-810-00
1000	–	1-121-736-00	1-121-245-00	1-121-657-00	1-121-388-00	1-123-061-00
2200	1-121-658-00	1-121-659-00	1-121-660-00	1-123-067-00	1-121-984-00	–
3300	1-121-661-00	1-123-075-00	1-123-071-00	–	–	–

CAP. (μF)	100 VOLT.	160 VOLT.	250 VOLT.	350 VOLT.
	PART No.	PART No.	PART No.	PART No.
0.47	–	–	–	–
1.0	1-123-249-00	1-123-252-00	1-123-003-00	1-121-168-00
2.2	1-123-250-00	1-123-026-00	–	1-123-028-00
3.3	1-121-995-00	–	1-123-004-00	1-123-006-00
4.7	1-123-255-00	1-121-246-00	1-121-759-00	1-123-007-00
10	1-121-126-00	1-121-999-00	1-123-254-00	1-123-008-00
22	1-121-996-00	1-123-253-00	1-123-005-00	1-123-022-00
33	1-121-997-00	1-121-757-00	–	–
47	1-123-251-00	1-121-919-00	–	–
100	1-123-084-00	–	–	–

CERAMIC CAPACITORS

CAP. (pF)	50 VOLT. PART No.	CAP. (pF)	50 VOLT. PART No.	CAP. (pF)	50 VOLT. PART No.	CAP. (μF)	50 VOLT. PART No.
0.5	1-101-837-00	22	1-102-959-00	150	1-101-361-00	0.001	1-102-074-00
0.75	1-101-586-00	24	1-102-960-00	160	1-101-367-00	0.0012	1-102-118-00
1.0	1-102-934-00	27	1-102-961-00	180	1-102-976-00	0.0015	1-102-119-00
1.5	1-101-576-00	30	1-102-962-00	200	1-102-977-00	0.0018	1-102-120-00
2.0	1-102-935-00	33	1-102-963-00	220	1-102-978-00	0.0022	1-102-121-00
3	1-102-936-00	36	1-102-964-00	240	1-102-979-00	0.0027	1-102-122-00
4	1-102-937-00	39	1-102-965-00	270	1-102-980-00	0.0033	1-102-123-00
5	1-102-942-00	43	1-102-966-00	300	1-102-981-00	0.0039	1-102-124-00
6	1-102-943-00	47	1-101-880-00	330	1-102-820-00	0.0047	1-102-125-00
7	1-102-944-00	51	1-101-882-00	360	1-102-821-00	0.0056	1-102-126-00
8	1-102-945-00	56	1-101-884-00	390	1-102-822-00	0.0068	1-102-127-00
9	1-102-946-00	62	1-101-886-00	430	1-102-823-00	0.0082	1-102-128-00
10	1-102-947-00	68	1-101-888-00	470	1-102-824-00	0.01	1-102-129-00
11	1-102-948-00	75	1-101-890-00	510	1-101-059-00	0.022	1-101-005-00
12	1-102-949-00	82	1-102-971-00	560	1-102-115-00	0.047	1-101-006-00
13	1-102-950-00	91	1-102-972-00	680	1-102-116-00		
15	1-102-951-00	100	1-102-973-00	820	1-102-117-00		
16	1-102-952-00	110	1-102-815-00				
18	1-102-953-00	120	1-102-816-00				
20	1-102-958-00	130	1-101-081-00				

0.001μF = 1,000pF

CERAMIC (SEMICONDUCTOR) CAPACITORS

→ : Use the high voltage rated one.

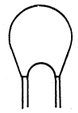
CAP. (μF)	25 VOLT. PART No.	50 VOLT. PART No.	CAP. (μF)	25 VOLT. PART No.	50 VOLT. PART No.
0.001	→	1-161-039-00	0.018	1-161-016-00	1-161-054-00
0.0012	→	1-161-040-00	0.022	1-161-017-00	1-161-055-00
0.0015		1-161-041-00	0.027	1-161-018-00	1-161-056-00
0.0018		1-161-042-00	0.033	1-161-019-00	1-161-057-00
0.0022		1-161-043-00	0.039	1-161-010-00	1-161-058-00
0.0027	→	1-161-044-00	0.047	1-161-021-00	1-161-059-00
0.0033	→	1-161-045-00	0.056	→	1-161-060-00
0.0039	→	1-161-046-00	0.068	→	1-161-061-00
0.0047	→	1-161-047-00	0.082	1-161-024-00	1-161-062-00
0.0056	→	1-161-048-00	0.1	1-161-025-00	1-161-063-00
0.0068	→	1-161-049-00			
0.0082	1-161-012-00	1-161-050-00			
0.01	1-161-013-00	1-161-051-00			
0.012	→	1-161-052-00			
0.015	1-161-015-00	1-161-053-00			

ICF-7600AW

MYLAR CAPACITORS

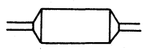
CAP. (μF)	RATING 50 VOLT. PART No.	100 VOLT. PART No.	200 VOLT. PART No.	CAP. (μF)	50 VOLT. PART No.	100 VOLT. PART No.	200 VOLT. PART No.	CAP. (μF)	50 VOLT. PART No.	100 VOLT. PART No.	200 VOLT. PART No.
0.001	1-108-227-00	1-108-365-00	1-108-409-00	0.01	1-108-239-00	1-108-377-00	1-108-421-00	0.1	1-108-251-00	1-108-389-00	1-108-433-00
0.0012	1-108-351-00	1-108-366-00	1-108-410-00	0.012	1-108-357-00	1-108-378-00	1-108-422-00	0.12	1-108-363-00	1-108-390-00	1-108-434-00
0.0015	1-108-228-00	1-108-367-00	1-108-411-00	0.015	1-108-240-00	1-108-379-00	1-108-423-00	0.15	1-108-252-00	1-108-391-00	1-108-435-00
0.0018	1-108-352-00	1-108-368-00	1-108-412-00	0.018	1-108-358-00	1-108-380-00	1-108-424-00	0.18	1-108-364-00	1-108-392-00	1-108-436-00
0.0022	1-108-220-00	1-108-369-00	1-108-413-00	0.022	1-108-242-00	1-108-381-00	1-108-425-00	0.22	1-108-254-00	1-108-393-00	1-108-437-00
0.0027	1-108-353-00	1-108-370-00	1-108-414-00	0.027	1-108-359-00	1-108-382-00	1-108-426-00	0.27	1-108-854-00	–	–
0.0033	1-108-232-00	1-108-371-00	1-108-415-00	0.033	1-108-244-00	1-108-383-00	1-108-427-00	0.33	1-108-855-00	–	–
0.0039	1-108-354-00	1-108-372-00	1-108-416-00	0.039	1-108-360-00	1-108-384-00	1-108-428-00	0.39	1-108-856-00	–	–
0.0047	1-108-234-00	1-108-373-00	1-108-417-00	0.047	1-108-246-00	1-108-385-00	1-108-429-00	0.47	1-108-857-00	–	–
0.0056	1-108-355-00	1-108-374-00	1-108-418-00	0.056	1-108-361-00	1-108-386-00	1-108-430-00				
0.0068	1-108-237-00	1-108-375-00	1-108-419-00	0.068	1-108-249-00	1-108-387-00	1-108-431-00				
0.0082	1-108-356-00	1-108-376-00	1-108-420-00	0.082	1-108-362-00	1-108-388-00	1-108-432-00				

TANTALUM CAPACITORS



CAP. (μF)	RATING → : Use the high voltage rated one. 3.15 VOLT. PART No.	6.3 VOLT. PART No.	10 VOLT. PART No.	16 VOLT. PART No.	20 VOLT. PART No.	25 VOLT. PART No.	35 VOLT. PART No.
0.01					→	→	1-131-396-00
0.015						→	1-131-397-00
0.022						→	1-131-398-00
0.033						→	1-131-399-00
0.047						→	1-131-400-00
0.068					→	→	1-131-401-00
0.1					→	→	1-131-402-00
0.15					→	→	1-131-403-00
0.22					→	→	1-131-404-00
0.33					→	1-131-409-00	1-131-405-00
0.47	–	–	–	–	1-131-412-00	→	1-131-406-00
0.68	–	–	–	1-131-415-00	→	1-131-410-00	1-131-407-00
1.0	–	–	1-131-418-00	–	1-131-413-00	→	1-131-408-00
1.5	–	1-131-421-00	–	1-131-416-00	→	1-131-411-00	1-131-348-00
2.2	1-131-424-00	–	1-131-419-00	–	1-131-414-00	1-131-355-00	1-131-349-00
3.3	–	1-131-422-00	–	1-131-417-00	1-131-362-00	1-131-356-00	1-131-350-00
4.7	1-131-425-00	–	1-131-420-00	1-131-369-00	1-131-363-00	1-131-357-00	1-131-351-00
6.8	–	1-131-423-00	1-131-376-00	1-131-370-00	1-131-364-00	1-131-358-00	1-131-352-00
10	1-131-426-00	1-131-383-00	1-131-377-00	1-131-371-00	1-131-365-00	1-131-359-00	1-131-353-00
15	1-131-390-00	1-131-384-00	1-131-378-00	1-131-372-00	1-131-366-00	1-131-360-00	–
22	1-131-391-00	1-131-385-00	1-131-379-00	1-131-373-00	1-131-367-00		
33	1-131-392-00	1-131-386-00	1-131-380-00	1-131-374-00			
47	1-131-393-00	1-131-387-00	1-131-381-00	–			
68	1-131-394-00	1-131-388-00	–	–			
100	1-131-395-00	–	–	–			

TANTALUM CAPACITORS



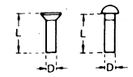
CAP. (μF)	RATING 3 VOLT. PART No.	6.3 VOLT. PART No.	10 VOLT. PART No.	16 VOLT. PART No.	20 VOLT. PART No.	35 VOLT. PART No.
0.033						1-131-273-00
0.047						1-131-274-00
0.068						1-131-275-00
0.1						1-131-276-00
0.15						1-131-277-00
0.22			–	–	1-131-262-00	1-131-278-00
0.33			–	–	1-131-263-00	1-131-279-00
0.47			1-131-169-00	–	1-131-264-00	1-131-280-00
0.68			–	1-131-258-00	1-131-265-00	1-131-281-00
1.0			1-131-254-00	–	1-131-266-00	1-131-282-00
1.5		1-131-250-00	–	–	1-131-267-00	1-131-283-00
2.2		–	–	1-131-259-00	1-131-268-00	1-131-284-00
3.3		–	1-131-255-00	–	1-131-269-00	–
4.7		1-131-251-00	1-131-171-00	–	1-131-270-00	–
6.8		–	–	1-131-260-00	1-131-271-00	–
10	–	–	1-131-256-00	–	1-131-272-00	–
15	–	1-131-252-00	–	1-131-261-00		
22	–	–	1-131-257-00	–		
33	1-131-176-00	1-131-253-00	1-131-173-00	–		
47	1-131-288-00	1-131-174-00	–	–		
100	1-131-177-00					

1/8 WATT CARBON RESISTOR

Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.
2.0	—	13	1-246-821-00	91	1-246-831-00	620	1-246-841-00	4.3k	1-246-851-00	30k	1-246-861-00	200k	1-246-871-00
2.2	1-246-751-00	15	1-246-761-00	100	1-246-771-00	680	1-246-781-00	4.7k	1-246-791-00	33k	1-246-801-00	220k	1-246-811-00
2.4	—	16	1-246-822-00	110	1-246-832-00	750	1-246-842-00	5.1k	1-246-852-00	36k	1-246-862-00	240k	1-247-054-00
2.7	1-246-752-00	18	1-246-762-00	120	1-246-772-00	820	1-246-782-00	5.6k	1-246-792-00	39k	1-246-802-00	270k	1-247-046-00
3.0	—	20	1-246-823-00	130	1-246-833-33	910	1-246-843-00	6.2k	1-246-853-00	43k	1-246-863-00	300k	1-247-055-00
3.3	1-246-753-00	22	1-246-763-00	150	1-246-773-00	1.0k	1-246-783-00	6.8k	1-246-793-00	47k	1-246-803-00	330k	1-247-047-00
3.6	—	24	1-246-824-00	160	1-246-834-00	1.1k	1-246-844-00	7.5k	1-246-854-00	51k	1-246-864-00	360k	1-247-056-00
3.9	1-246-754-00	27	1-246-764-00	180	1-246-774-00	1.2k	1-246-784-00	8.2k	1-246-794-00	56k	1-246-804-00	390k	1-247-048-00
4.3	—	30	1-246-825-00	200	1-246-835-00	1.3k	1-246-845-00	9.1k	1-246-855-00	62k	1-246-865-00	430k	1-247-057-00
4.7	1-246-755-00	33	1-246-765-00	220	1-246-775-00	1.5k	1-246-785-00	10k	1-246-795-00	68k	1-246-805-00	470k	1-247-049-00
5.1	—	36	1-246-826-00	240	1-246-836-00	1.6k	1-246-846-00	11k	1-246-856-00	75k	1-246-866-00	510k	1-247-058-00
5.6	1-246-756-00	39	1-246-766-00	270	1-246-776-00	1.8k	1-246-786-00	12k	1-246-796-00	82k	1-246-806-00	560k	1-247-050-00
6.2	—	43	1-246-827-00	300	1-246-837-00	2.0k	1-246-847-00	13k	1-246-857-00	91k	1-246-867-00	620k	1-247-059-00
6.8	1-246-757-00	47	1-246-767-00	330	1-246-777-00	2.2k	1-246-787-00	15k	1-246-797-00	100k	1-246-807-00	680k	1-247-051-00
7.5	1-246-818-00	51	1-246-828-00	360	1-246-838-00	2.4k	1-246-848-00	16k	1-246-858-00	110k	1-246-868-00	750k	1-247-060-00
8.2	1-246-758-00	56	1-246-768-00	390	1-246-778-00	2.7k	1-246-788-00	18k	1-246-798-00	120k	1-246-808-00	820k	1-247-052-00
9.1	1-246-819-00	62	1-246-829-00	430	1-246-839-00	3.0k	1-246-849-00	20k	1-246-859-00	130k	1-246-869-00	910k	1-247-061-00
10	1-246-759-00	68	1-246-769-00	470	1-246-779-00	3.3k	1-246-789-00	22k	1-246-799-00	150k	1-246-809-00	1 M	1-247-053-00
11	1-246-820-00	75	1-246-830-00	510	1-246-840-00	3.6k	1-246-850-00	24k	1-246-860-00	160k	1-246-870-00		
12	1-246-760-00	82	1-246-770-00	560	1-246-780-00	3.9k	1-246-790-00	27k	1-246-800-00	180k	1-246-810-00		

HARDWARE NOMENCLATURE

Screw: – P 3 x 10
- *L: Length in mm*
- *D: Diameter in mm*
- *Type of head*
- *Indicated slotted-head only.*
- *Unless otherwise indicated, it means cross-recessed head (Phillips type).*



Nut, Washer, Retaining ring:
- N 3
- *Diameter of usable screw or shaft*
- *Reference designation*

Reference Designation	Shape	Description	Remarks
		SCREWS	
P		pan-head screw	binding-head (B) screw for replacement
PWH		pan-head screw with washer face	binding-head (B) screw and flat washer for replacement
PS PSP		pan-head screw with spring washer	binding-head (B) screw and spring washer for replacement
PSW PSPW		pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement
R		round-head screw	binding-head (B) screw for replacement
K		flat-countersunk-head screw	
RK		oval-countersunk-head screw	
B		binding-head screw	
T		truss-head screw	binding-head (B) screw for replacement
F		flat-fillister-head screw	
RF		fillister-head screw	
BV		braizer-head screw	

Reference Designation	Shape	Description	Remarks
		SELF-TAPPING SCREWS	
TA		self-tapping screw	ex: TA, P 3 x 10
PTP		pan-head self-tapping screw	binding-head self-tapping (TA, B) screw for replacement
PTPWH		pan-head self-tapping screw with washer face	binding-head self tapping (TA, B) screw and flat washer for replacement
PTTWH		pan-head thread-rolling screw with washer face	binding-head (B) screw and flat washer for replacement
		SET SCREWS	
SC		set screw	
SC		hexagon-socket set screw	ex: SC 2.6 x 4, hexagon socket
		NUT	
N		nut	
		WASHERS	
W		flat washer	
SW		spring washer	
LW		internal-tooth lock washer	ex: LW3, internal
LW		external-tooth lock washer	ex: LW3, external
		RETAINING RINGS	
E		retaining ring	
G		grip-type retaining ring	

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